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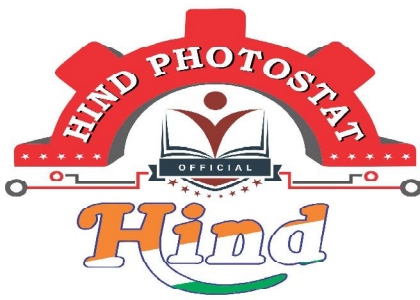
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THEORY OF COMPUTATION
BY-PRASAD SIR

- Theory
- Explanation
- Derivation
- Example
- Shortcuts
- Previous Years Question With Solution

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TOC

- Prasad sir

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Textbooks

- ulman
- John c. martin
- Peter Linz
- Michael.

Syllabus.

1. Finite Automata
2. Regular Expression & Regular language
3. Grammar
4. Push down Automata
5. Turing machine
6. Undeciability.

Input Alphabet: There is no prescribed definition for an input alphabet but it must have finite no. of elements.

Eg: $\Sigma = \{a, b, c\}$
 $= \{0, 1\}$
 $= \{+, -, *, \div\}$

String: A string is any finite combination of input alphabets.

Eg: Given Alphabet = $\Sigma = \{a, b\}$

Strings: $a, aa, aaa, aaaa, \dots$
 $abab, \dots$

but $(ab \dots \text{infinite})$ is not a string.

Operation on string:

1) Length of the string: The no. of symbols in the string

Ex: $\Sigma = \{a, b, c\}$

0-length string: is only ϵ (Epsilon)

cardinality of $|\epsilon| = 0$

$|w| = 0$

a, b, c

$|w| = 2$

$aa, ab, ac, bb \dots$

Cardinality = length of string = no. of symbol in string.

The no. of strings of length '0' is $|\Sigma|^0 = 3^0 = 1$

" " " " " '1' is $|\Sigma|^1 = 3^1 = 3$

" " " " " '2' is $|\Sigma|^2 = 3^2 = 9$

" " " " " 'n' is $|\Sigma|^n = 3^n$